28227 S/194/61/000/005/071/078 D201/D303

9.3274

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AUTHOR:

Fuzik, N.S.

TITLE:

The (wide-) band properties of de-phasing modulation

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 2, abstract 5 K9 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 3, 13-16)

TEXT: The problems of applying de-phasing modulation in (wide-) band transmitters are discussed. The dependence is analyzed of power and el-acoustic performance indices of the wide band transmitter on Ug, Roe and Vo, where Vo - half of the phase shift between the vectors of the waves at the output of RF-channels, at which compensavectors of the waves at the output of RI-channels, at which compensation of mutual detuning occurs. The optimum design of the transmitter operation is discussed together with real modulation characteristics with changes in Ug by ± 20%, in Roe by ± 10%, in Vo by 5%. Experimental data are given from the study of a laboratory model using [7-50 (GU-50) tubes. This data shows that the non-linear

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The (wide-) band properties ...

distortions of the envelope slightly increase with the change in U_g by \pm 20%. The changes in R_{0e} and ψ_0 within the above mentioned limits affect power and performance indices only slightly. The results of the analysis confirm the possibility of wide band dephasing modulation. The tubes in the final stages should work with oscillating surges at all frequencies within the band. 3 references. Abstracter's note: Complete translation 7

Card 2/2

FUZIK, N. S.,

"Investigation of Modulation by Means of Dephasing." Dissertation for the Degree of Candidate of Sciences, Leningrad Electrotechnic Inst. of Communication im. M. A. Bonch-Bruyevich. Defense held on 23 November 1961.

In the dissertation are analyzed the main features of amplitude modulation of vacuum tube ascillators by the methods of G. Shireks (modulation by dephasing). On the basis of the calculation method proposed by the candidate for the degree, wherein a vacuum tube oscillator is operated in the detuned (in general) and either undervolage or weakly over-voltage modes, a procedure is developed for the engineering calculation of the static modulation characteristic.

Izv Vysshikh ucheb. zaved. MViSSO SSSR po razdelu Radiotekhnika, vol. 6, No. 1, 1963. p. 98-102 (original checked--Cand. of Sciences as in original.)

THE SHALL BE DESCRIPTION OF THE PROPERTY OF TH FUZINH, YE.K. KRASINSKIY, N.P.; VALUTINA, V.A.; PRYAKHINA-KON'KOVA, Ya.A.; FUZINA, Ye.K Reflect of light intensity on the oxidation-reduction balance of plants in connection with photosynthesis. Fisiol.rast. 2 (MLBA 8:9) no.1:62-69 Ja-F 155. 1. Gosudarstvennyy universitet imeni N.G.Chenyshevskogo, Saratove (Plants, Effect of light on) (Oxidation -- Reduction reaction)

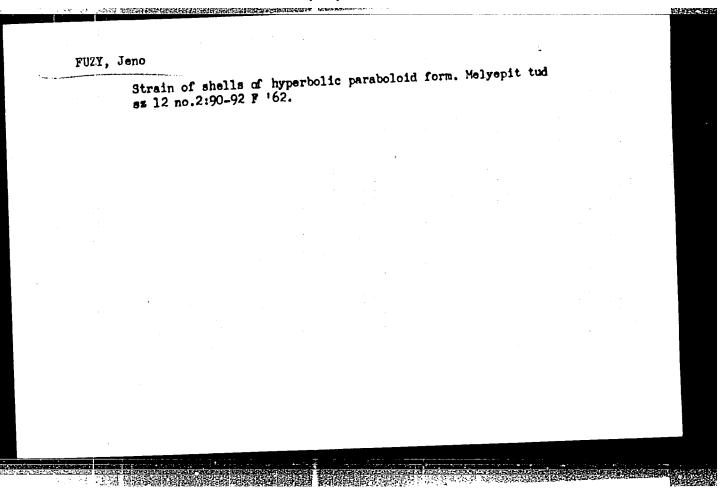
FUZINE CSERENYEY, Edit, dr.; KENDE, Eva, dr.

Whooping cough in an adult. Orv. hetil. 102 no.40:1887-1889 10'61.

1. Budapesti Orvostudomanyi Egyetem, Kozegeszsegtani Intezet.

(WHOOPING COUGH case reports)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513920007-4"



FUZY) Jeno, okleveles epitesmernek, iranyito tervezo Stress condition of an elastic infinite semispace loaded on its adjacent plane. Melyepitestud szemle 13 no.10:467-469 0 163. 1. Ipari es Mezogazdasagi Tervezo Vallalat.

FUZY, Jeno, okleveles epiteszmernok, vasbetonepito szakmernok

Approximate calculation of the potential theory problems in the theoretical mechanics in case of the square range.

Melyepitestud szemle 14 no.4:188-192 Ap '64.

1. Budapest City Construction Designing Interprise, Budapest.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513920007-4"

PUZY, C. (Budapest, XI., Stoczek u.2)

Design of mixed flow impoller. Periodica polytocha eng 6 no.4:299-317 162.

1. Department of Hydraulic Machines, Technical University, Budapest. Presented by Prof.Dr.J. Varga.

FUZI, Oliver (Budapest, XI., Stoczek u.2)

Consideration of flow conditions at rotor inlet in blading design.
Periodica polytechn eng 8 no.1:57-65 '64.

1. Department of Hydraulic Machines of Budapest Technical
University. Submitted August 2, 1763.

GAYDAMAKA, M.G., FYADINA, D.D.

Utilization of a surviving tissue culture for the transportation of virus-containing material. Vop.virus. 3 no.5:310-311 S-0 158

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

1. Khar kovskiy institut vaktsin i syvorotok.

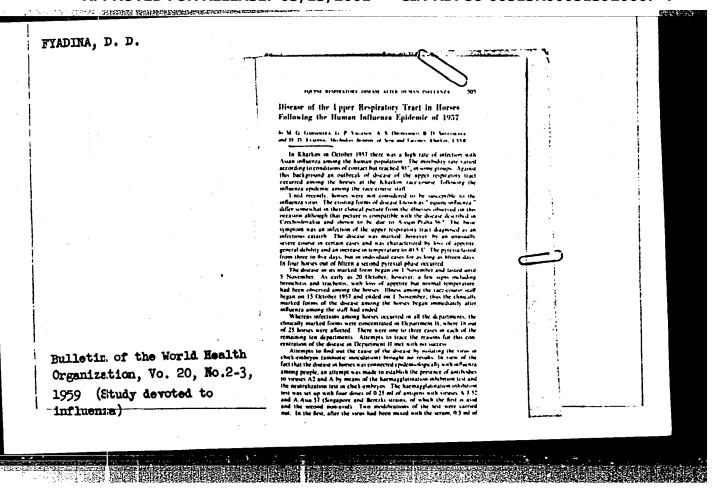
(VIRUSES, culture,

surviving tissue culture for transport of viruscontaining material (Rus))

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MIKULINSKAYA, R.M.; FYADINA, D.D.; DROMASHKO, A.I.; SHULICHENKO, A.I.;

ROMASHKO, Yu.V.; ZLATOPOL'SKAYA, R.D.; BERGOL'TSEYA, L.A.; VEREZUB,

L.G.; CHAYKINA, T.N.; YEMEL'YANOVA, O.I.; GINZBURG, L.Ya.; GOLODYUK,

L.F.; HUMYANTSEVA, I.V.; VYCHEGZHANIN, A.G.; GOL'DENBERG, R.A.

Data on the study of the epidemiological effectiveness of vaccination agains influenza in Kharkov in Octover 1957. Vop.virus. 4 no.4:407-411 J1-Ag 159. (MIRA 12:12)

 Khar'kovskiy institut vaktsin i syvorotok imeni I.I. Mechnikova. (INFLUENZA, prevention & control)

GATDAMAKA, M.G.; DROMASHKO, A.S.; ETADINA, D.D.

Glycerin influenzal diagnosticus. Vop.virus. 4 no.6:669-674 N-D '59.

(MIRA 13:3)

1. Khar'kovskiy institut vaktsin i syvorotok.

(INFLUENZA diag.)

(CLYCERIN pharmacol.)

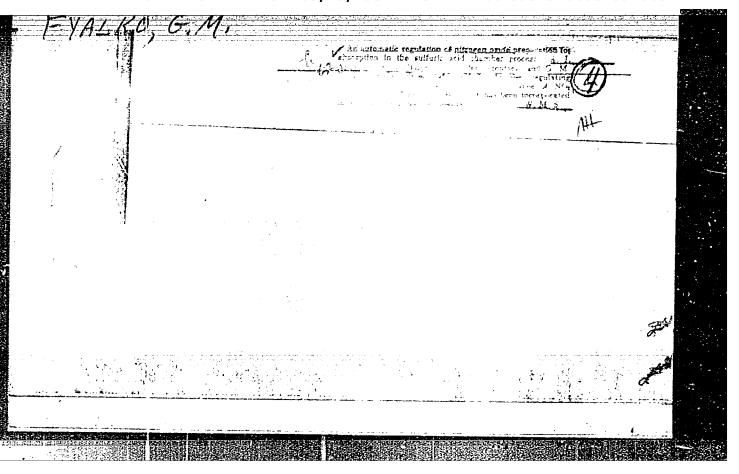
GAYDAMAKA, M.G.; VOLCHANETSKAYA, G.I.; FYADINA, D.D.

Adsorption of erythrocytes by cells of human tissue culture infected with influenza virus. Vop.virus. 6 no.5:564-567 S-0 '60.

(MIRA 14:7)

1. Khar'kovskiy institut vaktsin i syvorotok imeni I.I.Mechnikova.

(INFLUENZA) (ERYTHROCYTES)



PYATETSKIY, B.; FYAIKC, N.

Diesel Motor

New lubricator for engine 1D 26/30. MTS, 12, No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, Liovember 1953, Uncl.

FYALKOV, A.

USSR (600)

Milk - Composition

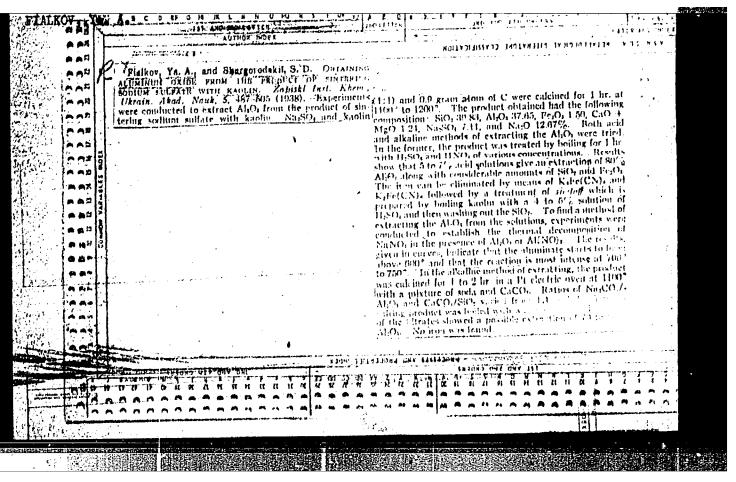
Destribution of fat in milk a: influenced by the size of fat globules. Mol. prom. 13 No. 7, 1952

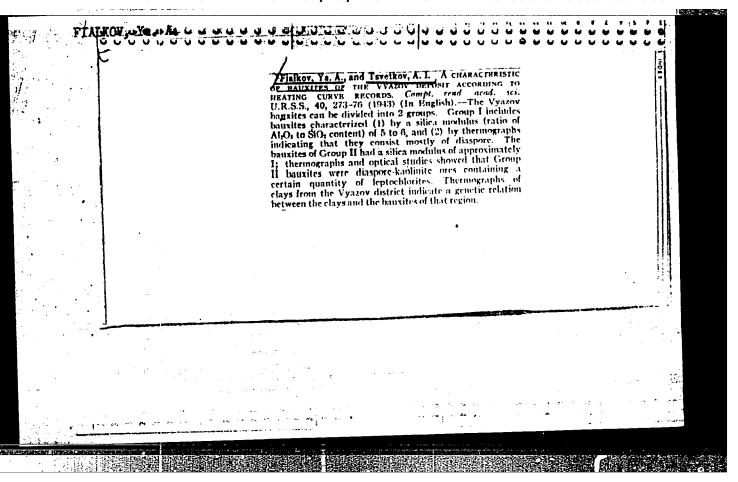
9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl. 2

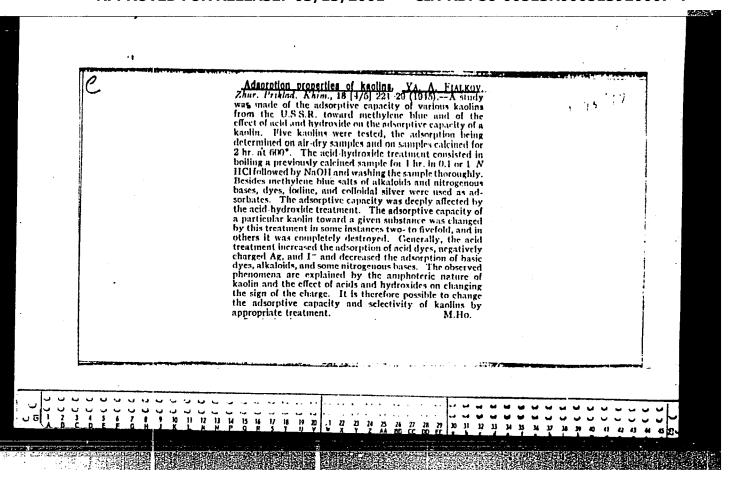
ANISIMOV, A.A.; FUZINA, Ye.K.; DOBRYAKOVA, L.A.; LIKHOVIDOVA, Ye.V.

Diurnal periodicity of the translocation of assimilates. Dokl.
AN SSSR 146 no.6:1441-1444 0 '62. (MIRA 15:10)

1. Gor'kovskiy gosudarstvennyy universitet im. N.I. Lobachevskogo.
Predstavleno akademikom A.L. Kursanovym.
(Plants—Assimilation)







SHCKCL, A. A., FYALKCV, YA. A.

Amines

Molecular compounds of hydrogen peroxide with organic amines and their derivatives. Ya. A. Fyalkov, A. A. Shokol. Ukr.khim.zhur. 15 No. 3, 1949.

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

- 1. FYALKOV, YA. A.; SHAKH, TS. I.
- 2. USSR (600)
- 4. Sulfanilamide
- 7. Intracomplex salts of sulfanilamide preparations, Ukr. khim. zhur., 17, No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

TKACHENKO, D. S., FYALKOV, YA A., DRAKINA, N. V.

Pharmacy - Study and Teaching

Letter to the editor of "Aptechnoe delo." Apt. delo no. 4, 1952.

Monthly List of Russian Accessions. Library of Congress. November, 1952. UNCLASSIFIED

2	FYALKOV.	V- 1	7/10/13	-	17
l.	P TALKOV.	_18A.:	KAGAN.	F.	Ye.

- 2. USSR (600)
- 4. Volumetric Analysis
- 7. Use of a hydrochloric solution of iodine trichloride in volumetric analysis. Part 2. Ukr. khim. zhur. 18, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

	1.	FYALKOV, Ya. A.	: KAGAN.	F.	Ye
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- 2. USSR (600)
- 4. Volumetric Analysis
- 7. Use of a hydrochloric solution of icdine trichloride in volumetric analysis. Part 1. Ukr. khim. zhur. 18, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

FYALKOV, YA. A., SHEVCHENKO, F. D.

Icdides

Physicochemical investigations of iodide solutions. Part 8, Systems: zinc and cadmium tetra-amminoiodides - iodine. Zhur. ob. khim. 22 no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

FYALKOV, YA., KUZIMENKO, A. A.

Compounds, Complex

Physicochemical investigation of the system phosphorus trichloride-bromine. Part 2.

Zhur. ob. khim, 22, No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

FYALKOV, YA. A., KUZ'MENKO, A. A., ABARBARCHUK, I. L.

Halides

Investigation of polyhalides, formed by non-polar halides., lzv. Sekt. plat. i blag. met., no. 26, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 195%, Uncl.

FÍALKOV, Ya. A.

10891 Complex Halides of Phosphorus Formed by PCl, and PBr With the Halides of Iodine. (Russian) I.D. Muryka and Is. A. Fialkov. Doklady Akademii Nauk SSSR, new ser., v. 83, Mar. 21, 1952, p. 415-417.

Experiments were made on the formation of the above complexes. Data are tabulated.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513920007-4"

FYALKOV YA A

Study of the reactions of isotopic iodine exchange in systems containing inorganic iodides. Ukr.khim.shur. 19 no.4:356-364
153. (MIRA 8:2)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk USSR. (Iodine--Isotopes) (Iodides)

FYALKOV, Ya. A., SHOR, G. I.

Systems (Chemistry)

Physicochemical investigation of systems containing iodine halides and halides of other elements. Part 10. Systems IBr-KEr and IBr-AlEr3. Zhur. ob. khim. 23, No. 3, 153.

Monthly List of Russian Accessions, Library of Congress June 1953. UNCL.

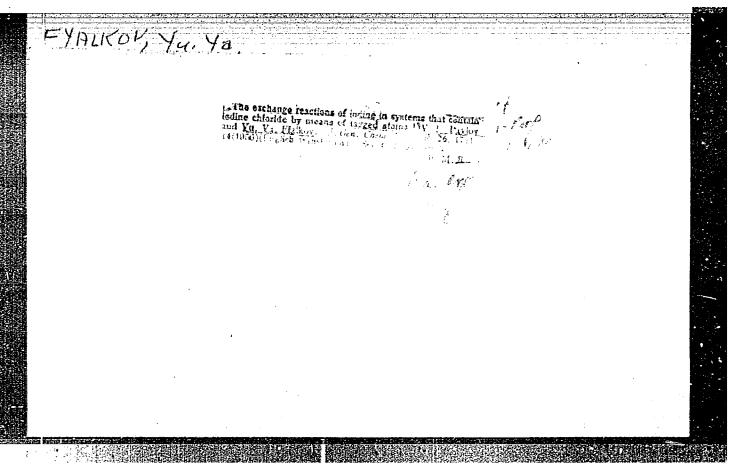
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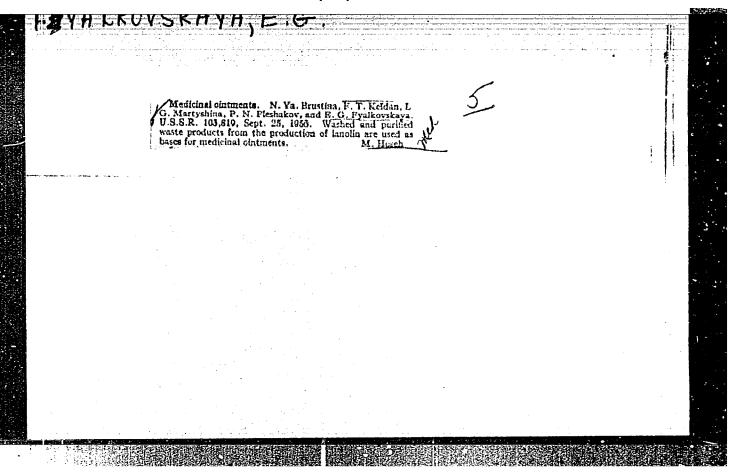
FYALKOV, Ya. A.; SHOR, O. I.

Compounds, Complex

Structure and nature of complex compounds formed during the interaction of iodine halides with halides of potassium or aluminum. Zhur. ob. khim. 23, No. 3, 1953.

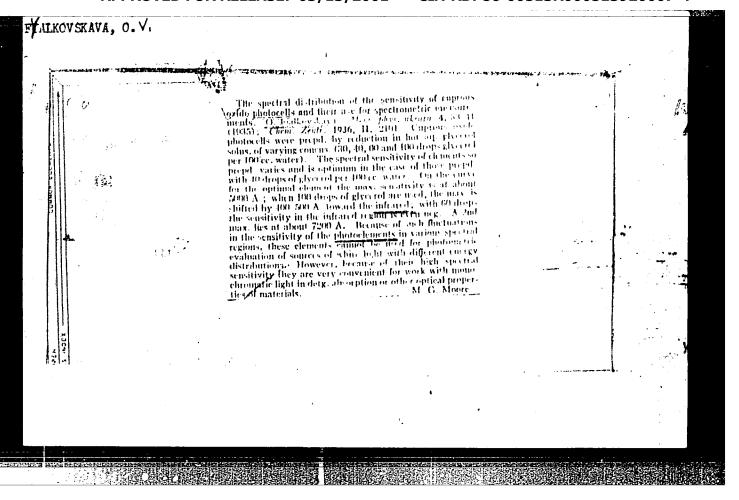
9. Monthly List of Russian Accession; Library of Congress, June 1953, Uncl.





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CIA-RDP86-00513R000513920007-4



FYALKOVSKAYA, O.V.; TERRNIN, A.N.

Photoreaction of pyridine in the adsorbed state. Izv.Akad.nauk. SSSR;Khim. otd. no.3:226-241 May-June 1951. (CIML 20:9)

1. Physics Scientific-Research Institute of Leningrad State University imeni A.A. Zhdanov.

FYALKOVOKAYA, O. V.

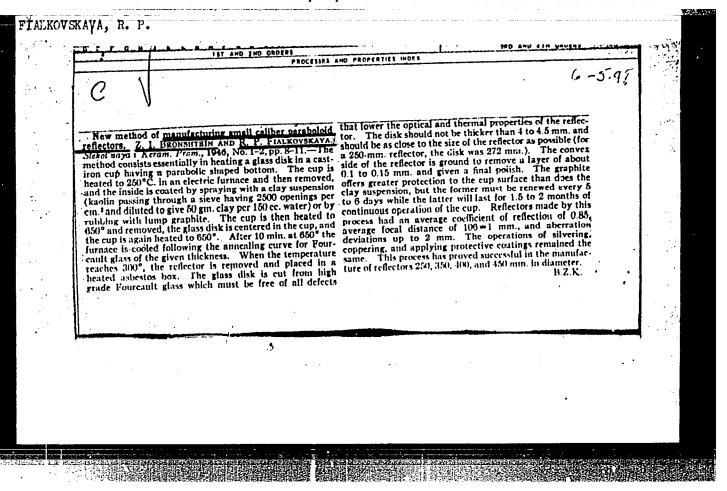
Phosphors

Correlation of intensities of emission-spectrum bands of alkyl-halide plouplors activated by thallium. Vest. Len. un 7, No. 9, 1952.

Monthly List of mussian Accessions, Library of Congress, June 1983. Uncl.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513920007-4



FYDRYK, Janusz; LACKI, Leon; CIESLAK, Elzbieta

Treatment of hypochromic anemia in underweight infants with oral iron preparations. Pediat. pol. 37 no.9:919-926 S '62.

1. Z I Kliniki Pediatrycznej PAM w Szczecinie Kierownik: doc. dr med. J. Starkiewiczowa i z Centralnego Laboratorium Panstwowego Szpitala Klinicznego Nr 1 w Szczecinie Kierownik: lek. H. Sliwinska.

(ANEMIA HYPOCHROMIC) (IRON) (INFANT NUTRITION DISORDERS)

FYDRYK, Janusz; SIKORA, Aleksandra; SZUBINSKI, Zbigniew

Concentration capacity of the urine according to its osmolality and specific gravity in infancy. Ped. Pol. 40 no.4:363-367 Ap. 65.

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. J. Starkiewiczowa).

OZEROV, R.P.; FYKIN, L.Ye.; RANNEV, N.V.; ZHDANOV, G.S.

Neutron diffraction study for the localization of hydrogen

atoms in the structure of lithium sulfate monohydrate Li2-SO₄*H₂O. Dokl. AN SSSR 148 no.5:1069-1072 F '63. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom N.V.Belovym.

(Neutron diffraction crystallography) (Lithium sulfate)

(Hydrogen)

OZEROV, R. P.; FYKIN, L. Ye.; RANNEV, N. V.

"Neutron-diffraction investigation of the crystal structure of lithium sulphate monohydrate, Li₂SO₁H₂O."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome, 9 Sep 63.

Karpov Inst of Phys Chem, Moscow.

- 1. FYTTCV, N.
- 2. USSR (600)
- 4. Retail Trade
- 7. Systematic control over commercial enterprises. V pom. profactivu 13, No. 22 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

S/169/63/000/003/041/042 D263/D307

AUTHORS:

Chichinin, I.S. and Fyn, De-I.

TITLE:

On the problem of distortions of hodographs of re-

flected waves during grouping

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 3, 1963, 15, abstract 3D88 (In collection: Vopr. dinamich. teorii rasprostr. seysmich. voln. 4. L., Leningr. un-t,

1962, 194-204)

TEXT: The authors studied the distortions of reflected wave signals in longitudinal grouping for two type of the distribution of the sensitivity of seismic receivers - rectangular and triangular. Calculations of signals at the output of groups were carried out for the input signal in the shape of a sinusoid filling the bell impulse. Formulas were obtained allowing an estimation of the maximum permissible base of grouping, for which the distortions introduced during the arrivals of the main phases of the signal do not exceed a certain value. Nomographic methods are shown for the

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L 04478-67 EWT(1)

ACC NR AR6013872

SOURCE CODE: UR/0274/65/000/011/A056/A056

AUTHORS: Lukin, A. A.; Fyn Sishan'

TIPLE: Transient processes in a switching circuit using semiconductor diodes

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 11A432

REF SOURCE: Tr. Mosk. energ. in-ta, vyp. 55, 1965, 185-191

TOPIC TAGS: switching circuit, transistorized circuit, circuit theory, semiconductor diode, transient flow /DG-Ts23 semiconductor diode

ABSTRACT: A calculation is presented of the transient process in a switching circuit using semiconductor diodes as proposed by V. N. Malinovskiy (V. N. Malinovskiy and R. R. Kharchenko. Izmeritel'naya tekhnika, 1960, No. 11). The circuit contains two dicdes connected in opposition. Diode 1 is connected by the cathode to the ground. A positive control signal is fed via resistance R1 to the point connecting the anodes of diodes 1 and 2. The cathode of 2 is connected via resistance R2 to the negative terminal of the power supply source (-E). The output signal is taken off the cathode of 2; it equals -E when the diodes are nonconducting; it equals >0 when the control voltage triggers both diodes. With the input of control voltage, forward currents begin to flow through the diodes-the process of establishing these currents can be considered practically instantaneous. The process of accumulating the charge in the bases in the case of brief pulses of forward current can not be successfully Card 1/2 UDC: 621.374.36:621.382.2

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flows through 1 during termination of the "linegative and reaches - this moment, after comtially. Analytic expressparate parts of the using type DG-Ts23 sem	ttle shelf" of reverse current E. The "little shelf" of reve	current flows through 2. Upon to of 1, the voltage on it becomes erse current in 2 starts from current of 2 decreases exponentermining the duration of the cent conducted with a circuit agreement with calculations.	
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HUNGARY/Nuclear Physics - Structure and Froperties of Nuclei

C-4

Abs Jour : Ref Zhur - Fizike, No 12, 1958, No 26938

Author : Fyorgyi Goza, Uberell Herbert

Inst : Not Given

Title : Connection Between the Recoil of the Nucleus and the Trans-

verse Folarization of the Beta Particles.

Orig Fub : Magyar tud. akad. Korp. fiz. kutato int. kozl., 1958, 5, No 6,

572-576, IV.

Abstract: Using the general Hamiltonian of Lee and Yang, corresponding to parity non-conservation, the authors calculate the pro-

bability of β decry for given momentum of neutrino and momentum and polarization of the electron. At a fixed momentum of the neutrino, the transverse polarization of the β particles differs from zero. A possible experiment for the detection

of this polarization is discussed.

Card : 1/1

FYRSHIROTU, M.

Savings accounts in the Rumanian People's Republic, Fin. SSSR
18 no.12:78-83 D '57. (MIRA 11:1)

1.Zamestitel' Glavnogo nachal'nika upravleniya Sberegatel'noy i
depositnoy kasey Rumynskoy Narodnoy Respubliki.

(Humania--Savings banks)

1.	FYUKS, N. A., PROF.
2.	USSR (600)
3.	Windbreaks, shelterbelts, etc.
4•	Data on the protective action of forest strips against wind. Les i step! 5 No. 2, 1953.
9.	June Monthly List of Russian Accessions Library of Congress 1952 Unclassified
 7.	Monthly List of Russian Accessions, Library of Congress, 1953. Unclassified

L 13507-66

ACC NR: AP6007039

SOURCE CODE: HU/0018/65/017/003/0253/0257

AUTHOR: Sari, Balint-Shari, B.; Megy, Inre - Nath, I. r Fulop, Tibor-Tyulep, T.

ORG: Medical University of Debrecen, I. Medical Clinic, Institute of Aratomy (Debreceni Orvostudomanyi Egyetem, I. Belklinika es Anatomiai Intezet)

MITIE: Effect of hypothalamic lesion on the serum cholesterol level

SOURCE: Kiserletes orvostudomany, v. 17, no. 3, 1965, 253-257

MOPIC TAGS: brain, neurology, CNS, blood serum, animal physiology

ABSTRACT: The serum cholesterol level was determined weekly following dectric lesion of the anterior and posterior nuclei of the hypothalamus. The serum cholesterol level rose following injury to either the anterior or the posterior hypothalamic nuclei. The maximum increase was reached by the end of the third week and the level returned to nearly normal by the end of the fourth week and the level returned to nearly normal by the end of the fourth week. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 08Jul64 / ORIG REF: 010 / OTH REF: 013

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24422

S/079/61/031/007/004/003 D229/D305

15.8170

Kreshkov, A.P., Karateyev, D.A., and Fyurst, V.

TITLE:

AUTHORS:

Study of the interaction of some alkyl- and arylalkoxy-

silanes with boric acid

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 7, 1961,

2139 - 2143

TEXT: This is a report on syntheses and properties of new polymeric silico-boron-organic compounds namely: polymethylsilyl borate $(CH_3SiO_3B)_n$, polyethylsilylborate $-(C_2H_5SiO_3B)_n$, polyphenylsilylborate $-(C_6H_5SiO_3B)_n$, diethylpolysiloxaneborate $\{[(C_2H_5)_2Si]_3$ of $\{[(CH_3)(C_6H_5)SiO_1.5]_3B\}_n$, synthesized by interaction of boric acid with methyltriethoxysilane, ethyltriethoxysilane, phenyltriethoxysilane, diethyl-diethoxysilane and methylphenyldiethoxysilane respectively. Silico-boron-organic compounds have prace-

Ca.rd 1/5

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Study of the interaction of ...

tical applicability. They can be synthetized by interaction of silico-organic compounds with inorganic boron compounds (BBr3, BCl3, BF3, B2H6, B2H5Br etc.) and by the interaction of alkyl/aryl/alkoxy-or halogenosilanes with boric acid. Tri(trialkylsilyl)borates were also obtained by the interaction of boric acid with trialkylsilanols (Ref. 4: N.F. Orlov, and B.N. Dolgov, Voronkov, M.G., Avt. svid 115157,1958) and by the interaction of boric acid with trialkylsilanes (Ref. 3: N.F. Orlov, B.N. Dolgov, and M.G. Voronkov, Trudy konferentsii po khimii i prakticheskomu primenenyu kremneorganicheskikh soedineniy (Conference on Chemistry and Practical Application of Silico-Organic Compounds) vyn. 1. TSBTI. L. 161, 1958). M.G. Voronkov and B.N. Zgonnik determined that the interaction of dimethyldichlorosilane with boric acid formed dimethylpolysiloxane-borate; the interaction of methyltriethoxysilane with boric acid formed (B2O3 · 4CH3SiO1.5)n; interaction of dimethyldiethoxysilane with boric acid formed [(B2O3 · 6(CH3)2SiO]n which can be represen-

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S/079/61/031/007/004/008 D229/D305

Study of the interaction of ...

ted as 2 { [(CH₃)₂SiO_{1.5}]₃B} n the last reaction being as follows: 3n B (OH)₃ + 6n(CH₂)₂ Si(OC₂H₅)₂ \rightarrow [B₂O₃ · 6(CH₃)₂ SiO]n + 9nC₂H₅OH + n B(OC₂H₅)₃. Kreshkov and associates (Ref. 6: A.P. Kreshkov, S.S. Vil'borg, Tr. MKhTI im. D.I. Mendeleyeva, 12, 40/1947, ZhOKh, 18, 172, 1948) found that at the high temperature alkyl/aryl/methoxy-or ethoxysilanes reacted with boric acid to form the methyl or ethyl esters of boric acid which colored the flame green. The above secondary reaction of the formation of ethyl ester of boric acid also took place. Molecular weight of the synthesized polymeric compounds of the type [(R₂Si)₃(BO₃)₂]n and {[(CH₃)(C₆H₅) SiO_{1.5}]₃ B} n was determined by Rast's method with benzoic acid. For all three compounds n ≈ 8. Combustion microanalysis was used to determine the amounts of the constituents of products. Silicon was determined by the "wet method" (Ref. 10: A.P. Kreshkov, G.D. Nessonova, ZhOKh, 19, 660, 1949). Boron was determined as boric acid by titration with 0.1 N NaOH in the presence of mannitol with a phenolphthalein Card 3/5

21ւկ22 \$/079/61/031/007/004/008 D229/D305

Study of the interaction of ...

indicator after the weighed amount (\sim 0.1 gr) of substance was dissolved in an excess of sodium hydroxide and neutralized with 0.1 N hydrochloric acid using methyl red indicator. Qualitative tests for the presence of hydroxyl and ethoxy were negative. The infra-red spectra of obtained polymeric silico-boron-organic compounds were studied. The infra-red spectra of (CH₃SiO₃ B) n and of (C₂H₅SiO₃ B) n had absorption bands of different wave-lengths characteristic for different groups and bonds: 9.60 and 9.55 μ (Si-O), 740 and 7.30 μ (B-O), 12.75 and 12.70 μ (Si-CH₃). 3.20 and 3.15 μ (C-H) and 6.5 μ (CH₃) which was in agreement with data from literature (Ref. 12: A.P. Kreshkov, V.A. Bork, L.V. Myshlyayeva, and G.D. Nessonova, Analiz kremniyorganicheskikh soedineniy (Analysis of Silicon Organic Compounds) GKhI, M., 1954). There was no absorption band of the wave-length of 2.71 μ due to hydroxyl groups, which proved the absence of this group in synthesised polymeric silicoboron-organic compounds. X-ray analysis for all compounds of the

Card 4/5

\$/080/61/034/012/011/017 D227/D305

53700

AUTHORS:

Kreshkov, A.P., Karateyev, D.A., and Fyurst, V.

TIME:

Investigating reactions of organic silicon compounds containing vinyl groups connected directly with a silicon atom, with boracic and phosphoric acids and

phosphorus pentoxide

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 12, 1961, 2711 - 2716

This is a study of reactions of various unsaturated compounds containing Si-CH=CH2 bonds and functional groups (-OC2H5, CH3COO-) attached to a silicon atom. From the products obtained and from the reactions with alcohols, esters, acetic acid etc., the authors were able to establish the mechanism of the reactions. They found that di-functional and tri-functional unsaturated organosilicons react with boracic acid in the following manner:

 $3n RR'Si(OR'')_2 + 2n B(OH)_3 \longrightarrow \{[RR'Si]_3(BO_3)_2\}_n + 6n R''OH,$

where

 $R = CH_3$, $R' = CH_2 = CH_3$, $R'' = CH_3CO_3$.

Card 1/4

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\$/080/61/034/012/011/017 D227/D305

Investigating reactions of ...

 $n \text{ RSI}(OR')_3 + n \text{ B}(OH)_3 \longrightarrow (RSiO_3B)_n + 3n \text{ R'OH}_3$ $R - CH_2 = CH - R' - C_2H_3$.

from which it is clear that only Si-O-C bonds react while Si-O-Si bonds remain intact. The reactions of divinyltetraethoxydisiloxane and vinyltriethoxysilane with P_2O_5 -

 $\begin{array}{c|c}
\hline
n [RSi(OR')_{2}]_{2}O + n P_{2}O_{5} & O_{1/s} & O \\
\hline
2_{RSi}(OR')_{3} + n P_{2}O_{5} & RSi_{-}O_{-}I_{-}O_{1/s} \\
R - CH_{2} = CH_{-}, R' - C_{2}H_{5} -).
\end{array}$

where

where

leads to the formation of the identical products and show that both Si-O-C and Si-O-Si take part in the reaction. The reaction of methylvinyldiacetoxysilane with phosphoric acid is as follows:

 $3n \begin{bmatrix} \text{CH}_2 = \text{CH} \\ \text{CH}_3 \end{bmatrix} \text{Si}(\text{OCOCH}_3)_2 \end{bmatrix} + 2n \text{ H}_3 \text{PO}_4 \rightarrow \\ ((\text{CH}_3)\text{CH}_2 = \text{CHSi}|_3(\text{PO}_4)_2)_n + 6n \text{ CH}_3\text{COOH}.$

Card 2/4

31474 8/080/61/034/012/011/017 D227/D305

Investigating reactions of ...

The products of all the reactions representing low molecular weight organosilicon-boron and organosilicon-phosphorus polymers were examined by chemical and physical methods to establish their empirical and structural formulae. Polymerization of unsaturated organosilicon compounds has been found to be more difficult than that of the unsaturated hydrocarbons and to require special catalyzers and high pressures, owing to the passivating effect of silicon on the double bonds; this explains the preservation of Si-CH=CH2 bonds in these polymers. In all cases the analysis showed good agreement with the empirical formulae. Vinyldiethoxypolysiloxanephosphate $([CH_2 = CHSi(OC_2H_5)_2PO_2.5]_2O)_n$ was prepared by heating the monomer with P205. The product obtained was in the form of lemon colored mass insoluble in common organic solvents but soluble in alkali. When methylvinyldiacetoxysilane was heated with phosphoric acid at 180°C acetic acid was liberated and the product was obtained in the form of a solid, soluble in ethanol, less soluble in chloroform, but easily hydrolyzed in aqueous and alkaline solutions. All the products obtained were analyzed to determine Si, C, H, B and P contents and also presence of alkoxy groups and double bonds. Infra-Card 3/4

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513920007-4"

Investigating reactions of

31174 S/080/61/034/012/011/017 D227/D305

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red spectra were determined by Yu. Ya. Mikhailenko. The authors suggest that organosilicon-beron and -phosphorus compounds may be added to various plastic masses in order to give them thermal stability and resistance to oils, and to improve some of the properties of cement solutions. There are 1 figure and 22 references: 19 Soviet-bloc and 5 non-Soviet-bloc. The references to the Englishlanguage publications read as follows: R. Nagel, Ch. Tambowski, H. W. Post, J. Org. Chem. 16, 1768, 1951; Bellamy, Gerard, Lappert, J.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva (Moscow Institute of Chemistry and Tech-

nology im. D.I. Mendeleyev)

SUBMITTED: February 28, 1961

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513920007-4"

KRESHKOV, A.F.; KARATEYEV, D.A.; FYURST, V.

Reactions of some alkyl and aryl alkoxy derfwatives of silane with boric acid. Zhur.ob.khim. 31 no.7:2139-2143 JI '61.

(MIRA 14:7)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.

Mendeleyeva.

(Silane) (Boric acid)

S/191/62/000/003/009/010 B101/B147

AUTHORS:

Kreshkov, A. P., Karateyev, D. A., Fyurst, V.

TITLE:

Methods for the quantitative determination of silicon, phosphorus, and boron in organoborosilicon and organo-

phosphorosilicon compounds

PERIODICAL: Plastic

Plasticheskiye massy, no. 3, 1962, 63-65

TEXT: The following analysis methods are described: (1) Determination of Si, (a) wet oxidation of the substance to be analyzed, and determination as SiO₂; (b) photocolorimetric determination as silicon molybdenum blue at pH = 4.1-4.4 if no Si-C or Si-C-P bonds are present; (c) gravimetric determination of SiO₂ according to K. A. Andrianov et al. (ZhOKh, 26, 267 (1956)) if Si-C bonds are present. Error: 0.20-0.35%. (2) Determination of P in polymers with Si-O-P bonds: dissolution in 0.1 N NaOH, heating without boiling, cooling and titration of NaOH excess with 0.1 N HCl (methyl orange), use of an NaH₂PO₄ solution of similar concentration as standard solution; error: ± 1% (3) Determination of B: dissolu-

Card 1/2

Methods for the quantitative ...

S/19 1/62/000/003/009/010 B101/B147

tion in NaOH, neutralization with 0.1 N HCl (methyl red), addition of mannite and titration with 0.1 N NaOH (phenolphthalein); error: within +0.22 and -2.85%. (4) Simultaneous determination of B and P: dissolution in 0.1-0.2 N NaOH, titration with 0.1-0.2 N HCl until NaH₂PO₄ forms (methyl orange), calculation of P content; addition of mannite, titration of mannitoboric acid with 0.1 N NaOH (phenolphthalein). Here, NaH₂PO₄ too, is titrated into Na₂HPO₄. Errors from three analyses were: -0.41 to +0.22 for B and -0.21 to +0.76% for P. There are 5 tables and 11 Sovietbloc references.

Card 2/2

S/079/63/033/001/020/023 D204/D307

AUTHORS:

Kreshkov, A. P., Karateyev, D. A., Fyurst, V. and

Pavlova, E. N.

DITLE:

A study of the reactions of dialkyldichlorosilanes and alkyltrichlorosilanes with potassium dihydrogen

phosphate

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 261-265

A study of the reactions ...

S/079/63/033/001/020/023 D204/D307

products were then dried to constant weight at 100 - 150°C. Compounds (HO)2P-O-Si-O-P(OH)2 (where (a) R=R'=Me, (b) R=R'=Et, and

(c) R=Me, R'=vinyl) were prepared in an anlogous manner, from ethereal KH2PO4 and (a) Me2SiCl2, (b) Et2SiCl2 and (c) CH3(CH2=CH)SiCl2, except that the refluxing with absolute alcohol was only for 2 hours. The above 5 compounds, which were thus prepared in 85 - 85% yields, are new. Two of the structures were confirmed by ir spectroscopy. There are 2 figures and 2 tables.

ASSOCIATION: . Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical

Technology imeni D. I. Mendeleyev)

SUBMITTED:

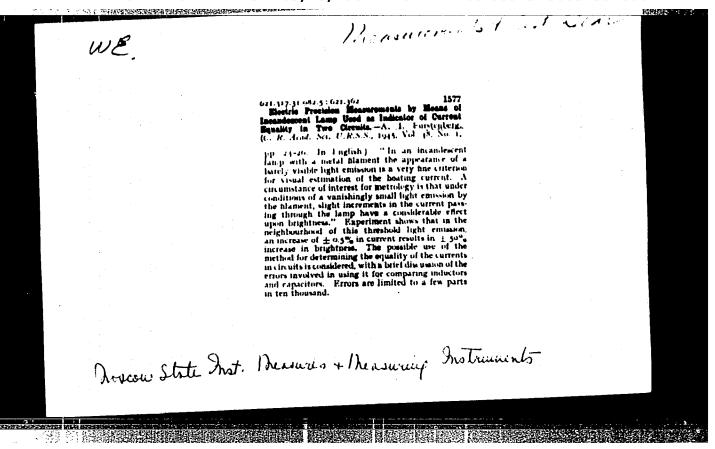
December 1, 1961

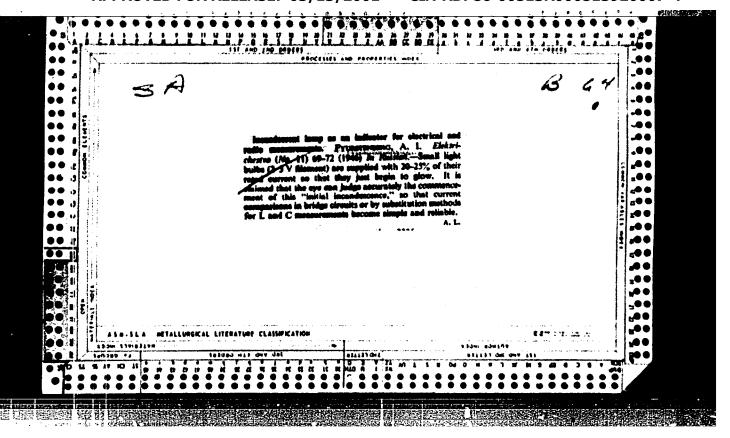
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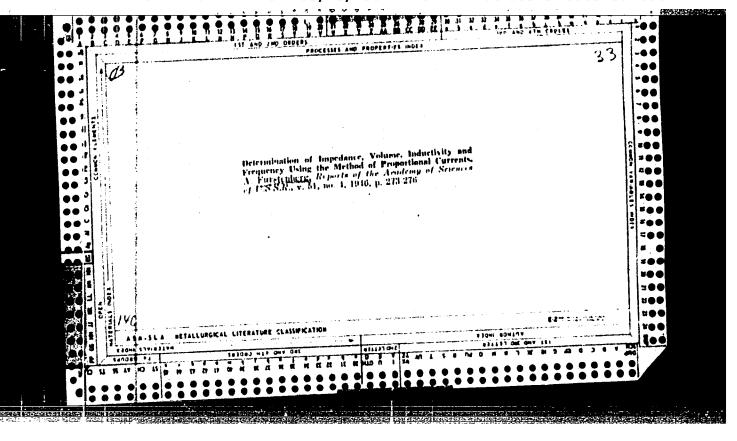
DAVANKOV, A.B.; FYUSHTI, M.Sh.

Copolymerization and proporties of three-component copolymers of vinyltoluene, & -methylstyrene, and divinylbenzene.

Zhur. prikl. khim. 36 no.9:2044-2047 D '63. (MIRA 17:1)

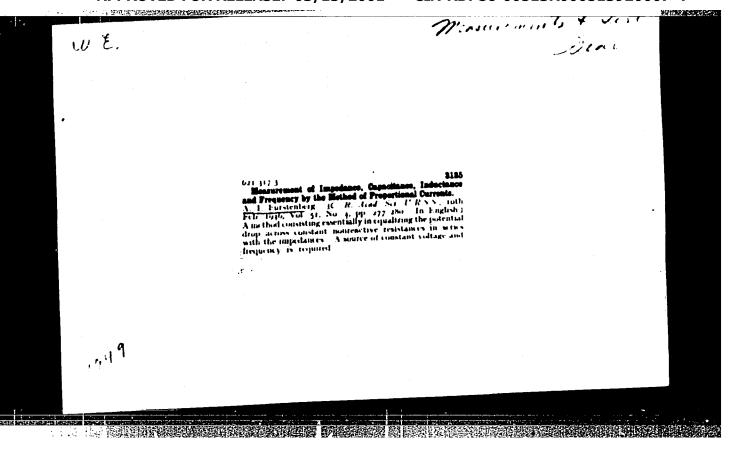






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FYURSTENEERG, A.

20715. Fyurstenberg, A. Lampochka vmesto vol'tmetra. Radio, 1949, No. 6, s. 49

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Noskva, 1949

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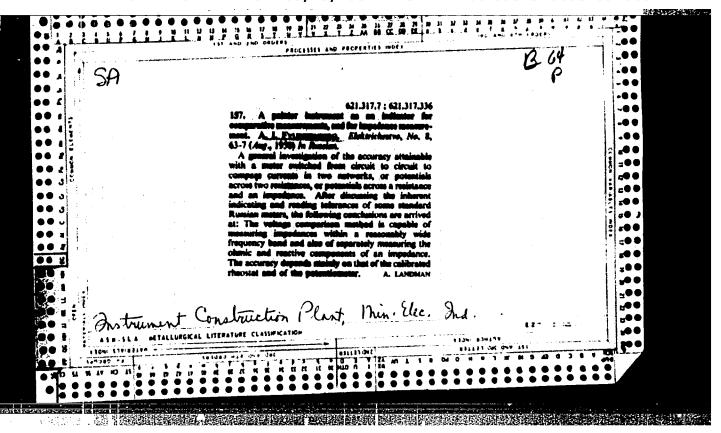
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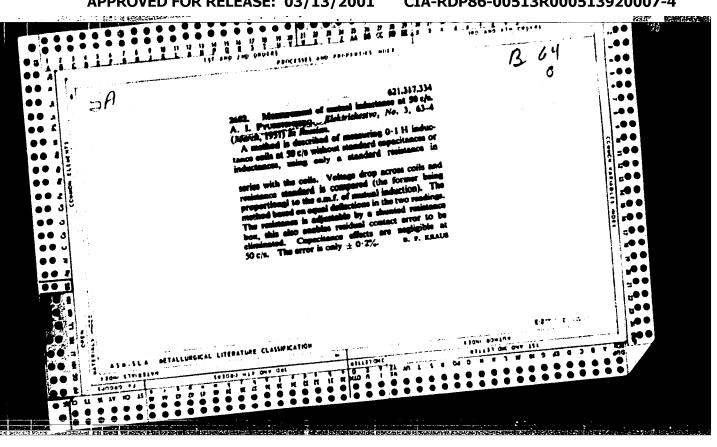
O pribore dlya proverki kohden- satorov, Predlozhennom. V.M. Lukashom. (<<Elektricheskvo>>, Nº 10, 1948). Elektrichestvo, 1949, Nº 6, s. 86

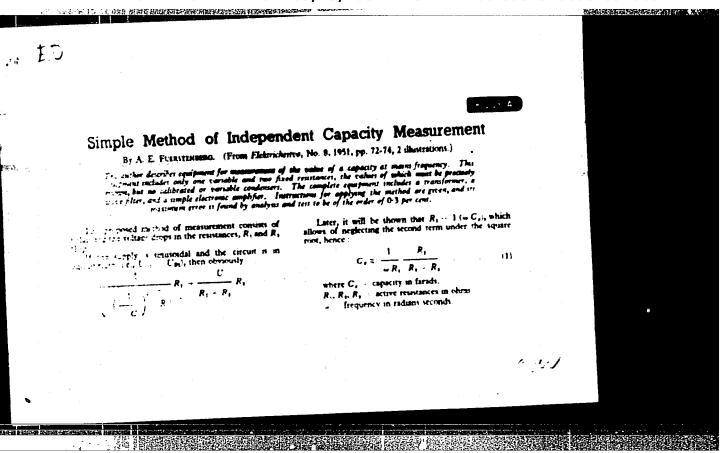
So: Letopis Zhwrnal Statey - Vol 27 - Moskva, 1949

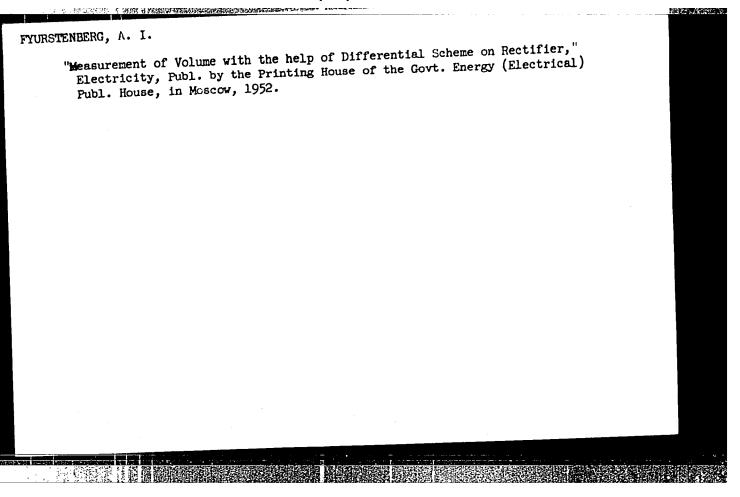
USSR/Engineering - Generators Nov 49 Capacitance, Measurement of "Method for Accurately Measuring Capacitance and Inductance," A. I. Fyurstenberg, Engr, Moscow, 4 pp "Elektrichestvo" No 11 Describes method proposed by author for accurate measurement of capacitance and inductance if effective resistance and inductance if effective resistance and requency of the generator are known. Accuracy (for large and medium values) is ± 0.01%. Includes two diagrams. Submitted 20 Apr 49.



FYURSTENBERG, A. H. reb 50 USSR/Engineering - Instruments Insulations "Device for Measuring the Moisture in Insulations," A. M. Fyurstenberg, Engr, Instr Constr Plant, Min of Elec Ind, 1 p "Prom Energet" No 2 Criticizes shortcomings of portable faradmeter of Cen Sci Res Lab for Elec Instr Bldg used for measuring insulation moisture: unregulated phase angle in bridge circuit, use of two-gang variable condenser, and buzzer operating on dry cells. Describes variant, assembled in about 2 hr, requiring no calibra-155116 tion.







FYURSTENBERG, A. I.

PA 237T19

USSR/Electricity - Capacitors Measurements

Jun 52

"Measurement of Capacitance With the Help of a Differential Circuit Using Rectifiers," Engr A. I. Fyurstenberg, Moscow

"Elektrichestvo" No 6, pp 65-67

Describes use of highly sensitive differential circuit for measuring capacitance by displacement method. Moving-coil indicating galvanometer serves as zero indicator. Error in measurement of unknown capacitance is practically equal to error of variable standard capacitance. Method is suitable for measuring capacitance at audio and radio frequencies. Submitted 25 Sep 51.

237T19

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513920007-4

U33R/Mectronics - Measurements

FYURSTENBERG, A.

"Measurment of Impedances with a Cathode-Ray Oscilloscope," A. Fyurstenberg

Radio, No 6, pp 46-49

Shows how a cathode-ray oscilloscope can be used as an indicator in the measurement of the absolute value and phase angle of impedances. These two quantities can be measured with an accuracy of \pm 3-4% for impedances of up to 60 kilohms. Method can also be used to measure indictances and capacitances and to find shorted turns in choke coils and transformers.

261.171

ORLOVSKIY, A.V., professor; LYUTER, R.A., doktor tekhnicheskikh nauk; KAZOVSKIY, Ye.Ya., kandidat tekhnicheskikh nauk; YAKOBSON, El'mar, inzhener; ANTOPOL'-SKIY, V.M., inzhener; FUKHOV, G.Ye., doktor tekhnicheskikh nauk; FYURSTER-BERGER, A.Ya., professor (Leningrad); TSVERAVA, G.K., Inzhener; KRAYNIY, K.I., inzhener (g.Kotovsk, Tambovskoy obl.); BELOV, V.N., inzhener (g.Ul'yanovsk).

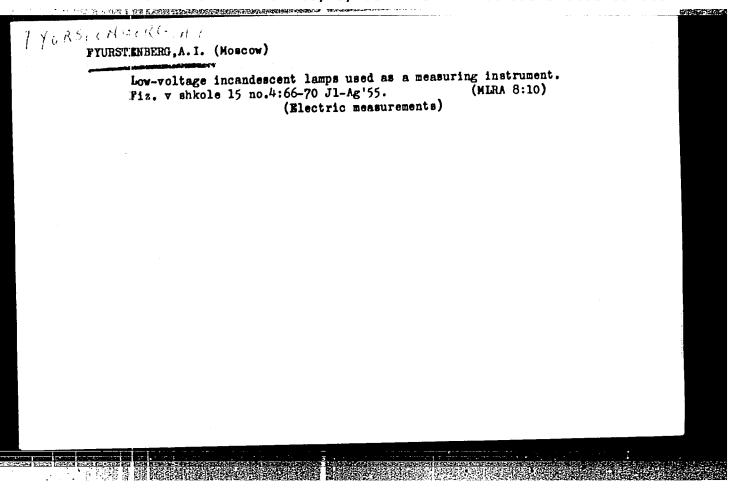
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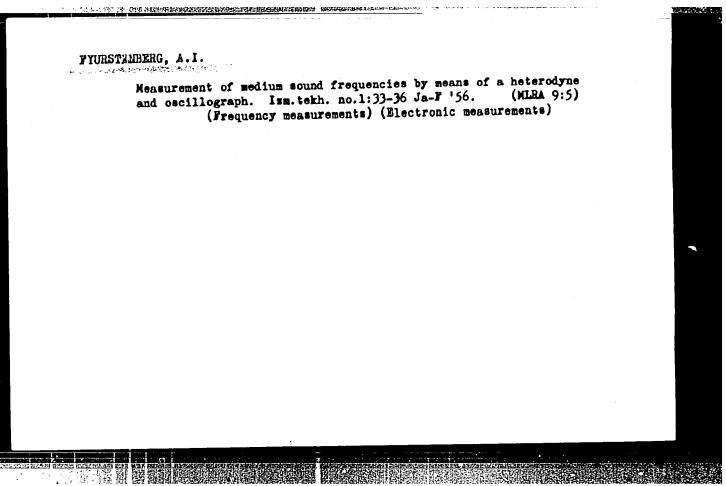
Correspondence conference of readers of "Elektrichestvo". Elektrichestvo (MLRA 6:8)

1. Kiyevskiy politekhnicheskiy institut (for Orlovskiy). 2. Zavod "Elektrosila" (for Lyuter and Kazovskiy). 3. Estonkommunenergo (for Yakobson).
4. Saratovskiy industrial'nyy tekhnikum (for Antopol'skiy). 5. Tomskiy politekhnicheskiy institut imeni Kirova (for Pukhov). 6. Tikhvinskiy glinozemnyy zavod (for TSverava). (Electric engineering--Periodicals)

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U3SR/ Electr	oni	cs - Measuring	-
Card	:	1/1	
Authors		Furstenberg, A.	
Title	3	A Simple Method of Measuring Capacitance	·
Periodical	\$	Radio, No. 4, 59 - 60, April 1954	
Abstract	•	A method of measuring capacitance, based on a comparison between the reactive resistance of a capacitor and a known effective resistance, is described. Diagrams; table.	
Institution	•		
Submitted	:		

USSR/Electronics - Instruments Card 1/1 Pub. 133 - 6/23 Authors : Furstenberg, A. I., Engineer Title ! Measuring frequencies by means of a quartz calibrator Periodical : Vest. svyazi 11. 12 - 14. Nov 1954 : The method of measuring frequencies by means of quartz calibrators is Abstract described. The use of a oscillograph, with a cathode-ray tube, producing a graphic record of the varying frequencies is analyzed, and the forms of oscillograms for various cases of operating frequencies are presented. Formulas for determining frequency values by a method of comparison with a certain standard frequency (together with an auxiliary table giving the values of a coefficient "K" used in the formulas), are presented. Other frequency-measuring methods, by means of a heterodyne frequencymeter, are also discussed. Diagrams; table. Institution: Submitted:





Seminar on e	lectron-beam oscillographs. (Oscillograph)	Priborostroenie no.2:26 (MLRA 9:8)	

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Francienber, a. 1., Re with the burst the 106-12-9/10 deciets ((46)ρ,ε)

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a section of leasuring Jound Frequency (metod izmereniya zvukovykh chastet).

Conf. Di Cal: dadiotekhnika, 1957, Vol. 12, hr 12, pp. 67-72 (UDDR)

For the measuring of low frequencies with an accuracy of some hundredths to a complicated and extensive apparatus is used. Here a less complicated and less ettained method of notsuring sound frequencies with an accuracy of ± 0,05 % is described. The frequency of measure of some dozens of and more can be measured by measure of a heterodine trequency mater, an intermediate merator, and the oscillers has The frequency of the auxiliary generator incommediate enerator is adjusted in such a namer that the

Patio between it and the heavered frequency f in an integer: $N = \frac{1}{2} \text{intermediate theory for}$

 $N_1 = \frac{r_{inter-cliate.commercor}}{r_x}$

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the presummer of the heterodyne frequency meter F_1 is adjusted in such a manner that the ratio between it and the frequency of the intermediate generator is an integer:

$$F_2 = \frac{F_1}{f_{intermodiate}}$$

For most heterodyne frequency meters the lowest frequency is 125 Kilocycles per second. In connection herewith the coefficients N_1 and N_2 in the case of a frequency measurement of the order of 100 c are within the range of from 24 to 55. Therefore the basic difficulty is the determination of the coefficients N_1 and N_2 . In methods of determining them are described: 1) The method of the "Extended Sine Development Figure". 2) The method of brightness methods in the method of seasuring sound frequency described here is illustrated on the basis of an exemple.

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A Method of Measuring Sound Frequency

108-12-9/10

There are 5 figures, 2 tables, and 6 references, 3 of

which are Slavic, and 2 English.

SUBMITTED:

June 27, 1957

AVAILABLE:

Library of Congress

1. Sound frequency-Measurement

Card 3/3

8(3),24(3)

AUTHOR:

Fyurstenberg, A. I.

507/20-123-2-18/50

TITLE:

The Measurement of Impedance and Iraquency by Means of a Twin Phase Switch (Izmereniye polnogo soprotivleniya i chastoty

pri pomoshchi sdvoyennogo fazovrashchatel'ya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 275-277

(USSR)

ABSTRACT:

The present paper describes a circuit consisting of 2 phase switches with common input, on which the parameters to be measured can practically be read off immediately. Measuring accuracy must be within the range of sound frequencies and low radiofrequencies of the orders $\frac{1}{2}(1 \div 2)$ and $\frac{1}{2}(1 \div 2)$. In the position marked "regulation", the sensitivity of the oscillograph in horizontal and vertical direction as well as the phase shifts caused by the amplifiers are equalized. On the screen of the oscillograph a luminous straight line is then obtained, which forms an angle of 45° with the line of the horizontal shift of the beam. The highest degree of sensitivity of the circuit with respect to a variation of the modulus of impedance is determined. At $\Delta Z = 0$ the oscillogram is

Card 1/3

impedance is determined. At $\Delta Z = 0$ the oscillogram is rectilinear and at ΔZ it has the shape of an ellipse. Here

The Measurement of Impedance and Frequency by Means of a Twin Phase Switch

SOV/20-123-2-18/50

Z denotes the amount of the modulus of the impedance $\mathbf{Z}_{\mathbf{x}}$. Equations for the large and for the small axis of the ellipse are written down. If the large axis has a length of l = 1000 m, $\Delta Z/Z = \pm 0.04 \%$ is obtained. When using a 5-inch oscillograph, $\Delta 7/Z \approx \pm$ (0.01 to 0.02) % is in practice obtained by means of the "fork method" ("metod vilki"). At frequencies of up to 5,000 cycles and in the case of impedance values of between 50 and 50,000 ohm a measuring accuracy of $\pm 1\%$ and $\pm (1.5 \div 2)^{0}$ was attained under the usual laboratory conditions. At a frequency of 150,000 cycles and an impedance of the order of 1000 ohm, measuring accuracy was $\pm 2\%$ and $\pm (2 \div 2.5)^{\circ}$ respectively. If the switch was mounted with special care, measuring accuracy at a frequency of 1,000 cycles and an impedance of \sim 10,000 ohm amounted to \pm 0.1 %. The twin phase switch permits a comparison of frequencies with the help of epicycloids and by using amplifiers. The error due to the coupling between the two generators can be eliminated by the application of a cathode repeater with double triode (e.g. 6N3P). By means of such a switching device it is possible to compare frequencies of up to about 5 meracycles. By means of an oscillograph with

Card 2/3

The Measurement of Impedance and Frequency by Means of a Twin Phase Switch

SOV/20-123-2-18/50

a 5-inch tube, it was possible to give a reliable interpretation of oscillograms with a frequency ratio of up to 100: 1 and 25: 1. The advantages offered by the cycloid method compared to those of the method of brightness modulation are pointed out. There are 1 figures and 12 references, 6 of which are Soviet.

PRESENTED:

July 10, 1958, by S. A. Vekshinskiy, Academician

SUBMITTED:

July 9, 1958

Card 3/3

21 (10) 307/53-68-2-5/7 AUTHOR: Fyurstenberg, A. I. Comparison of Frequencies With the Methods of Sinusoidal and TITLE: Elliptic Seanning (Sravneniye chastot metodami sinusoidal'noy i ellipticheskoy razvertok)

Uspekhi fizicheskikh nauk, 1959, Vol 58, Mr 2, PERIODICAL: pp 323-343 (US3R)

THE RESULTING PROPERTY OF THE PROPERTY OF THE

ABSTRACT:

The cathode ray tube is an elastic and consitive apparatus serving for the comparison of frequencies in a wide range. In a range of from 10 cycles to 30 megacycles the oscillographic method offers a number of advantages. The author of the present survey shows the characteristic features and the possibilities of this method on the basis of a great number of oscillographs. First, the method of sinusoidal scanning is dealt with in all details. The two frequencies to be compared (one known and the other to be determined) are assumed to be in a ratio of 2: 1. Figure 1 shows the scanning figures for different phase shifts between the voltages U_{χ} and U_{χ} deviating from one another. Figure 2 shows

54 such figures (Lissajous figures) for the case that the Card 1/3

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Comparison of Frequencies With the Methods of Sinusoidal and Elliptic Scanning

sov/53-58-2-5/7

deviations of the beam in the horizontal and vertical line be the same. Figure 3 gives the scanning figures (ratio of frequency 2: 1) for different phase shifts in the range of from 0 to 3000, and figure 4 shows the same for a frequency ratio of 3: 1. Further figures contain drawings relating to higher ratios of frequency (5:2, 5:2, 8:7 et al). Figure 8 contains drawings applying to the case in which one of the voltages is amplitude-modulated. Individual figures are partly discussed in detail. The unknown frequency is determined on the basis of the well-known rule which holds that the frequency ratio of the horizontal and vertical voltage is equal to the inverse ratio of the number of tangents fhor fvert = Kvert Khor. Hext, the moving Lissajous figures are discussed, and the mathematical theory as well as a classification are dealt with. Finally, the application of sinusoidal scanning figures with high multiplicity is dealt with and the ratios are discussed on the basis of oscillograms. The discussion also covers the measurement of acoustic frequencies by means of a heterodyne frequency meter and an

Card 2/3

Comparison of Frequencies With the Methods of Sinusoidal and Elliptic Scanning sov/53-68-2-5/7

oscillograph. In the second part of the paper the author deals (less thoroughly) with the method of elliptic scanning. Elliptic scanning is obtained by the combination of two sinusoidal voltages with a phase shift of ~90°. Figure 14 shows a simplified circuit diagram concerning this method. Figures 15 a and b depict such oscillograms, figure 16 illustrates the order of formation of elliptic scanning figures, figures 17 and 18 show 6 further forms of oscillograms (figures with a different number of lines). Table III which serves for the practical work, contains a number of data for figures with from 1 to 10 lines. Figure 19 finally, shows a scanning circuit for practical use. There are 19 figures, 3 tables, and 31 references, 13 of which are Soviet.

Card 3/3

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		Remarcy-Dunayer, I.M., Candidate of Technical Sciences. Wettological base in the Scientism of Nethods for Checking Dimensions ANNIANTE: Library of Congress		Printiales of Frequency Regiment. Oscillographic Nethods of Frequency Resultment	Legish, In. L., Dever of Technical Sciences, Professor. Modern methods of Tibration Measurement	Sarkin, Til. Optical-Sechadical Projection-Type Measuring Instruments for Checking Diseasions	Periodica Teley Engineer. Basic Troots in the Development of Lattromout for the Analysis of the Composition of Materials	Experies. D.B., Candidate of Technical Sciences. Present State and Problems of the Development of Flavouristics National	Smallerpkiz, N.N., Dotor of Sechnical Sciences, Professor, and L.T., belitter, Condition of Technical Sciences. Use of Technical Midiation in Measurement Technology	Terfable Wire-deput Destators AND MANUSCRIP TERBARK	communication of circulate and with the present state. And the options for development of instrument manufacture and measurement specifique. See proble of design-construction, and measurement specifique and the property of design-construction and measurement specifique and included in property of the problem of measurements and measurement and measurement and subjects through of metals. The third section deals with measurement metals increased the measurement metals increased the measurement metals increased the measurement metals increased the measurement metals in the section. No percentities are mentioned. References accompany on the design of the measurement metals are sections.	This collection of articles is intended for sate sel in the instrument industry.	Ed.: A.J. Gerrilor, Doctor of Technical Sciences, Professor; Tech. Ed.: A. In. Thinson; Manging Ed. for Literature on Mehine and Instrument Construction (Mashgis): F.V. Pohrovskiy, Engineer.	Priborostroyeniye i ismeritel'naya tehhnika (Instrument Makafacture and Heararement Technique) Moscow, Manhgis, 1960, bb2 p. Errata slip is 3,000 copies printed.	. Beschno-tekhnicheshoye obshehestvo priborostroitel'noy promyshlesnosti	PHAGE I BOOK EXPLORATION SOT/ASST	
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AUTHOR:

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Fyurstenberg, A.I.

TITLE:

An Oscillographic Combination Method of Frequency

Comparison

PERIODICAL:

Izmeritel'naya tekhnika, 1960, Nr 2, pp 46-48 (USSR)

ABSTRACT:

The author proposes a combined method for comparing frequencies of electric oscillations, based on the sinusoidal time base (Lissajous figures) and on the method of image brightness modulation / Ref 1,2,3, English, 5, Latin, 4 Soviet / The method (block diagram, Figure 1) is more simple and accurate than the methods on which it is based. The original idea was by R. Walter / Ref 9 / Using the oscillographic combination method, the more complicated elliptical time base method / Ref 1, 10 / can be eliminated, by means of which it is impossible to attenuate sufficiently the connection between the two genera-

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An Oscillographic Combination Method of Frequency Comparison

tors without a separate buffer tube, as well as to compare frequencies at small voltages. There are 3 diagrams, and 10 references, 1 of which is Latin, 3 English, 2 German, and 4 Soviet.

Card 2/2

